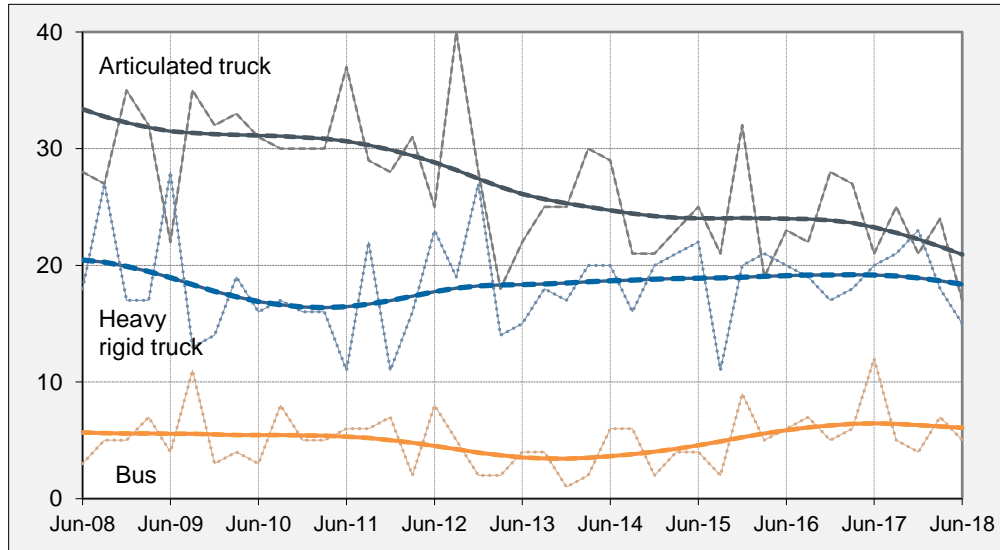




### Quarterly counts of fatal crashes involving heavy vehicles, Australia, with trends



#### Key features

- During the 12 months to the end of June 2018, 169 people died from 155 fatal crashes involving heavy trucks. These included 94 deaths from 87 crashes involving articulated trucks, 85 deaths from 77 crashes involving heavy rigid trucks and 10 deaths from 9 crashes involving both a heavy rigid truck and an articulated truck<sup>a</sup>.
- Fatal crashes involving heavy trucks:
  - decreased by 7.7 per cent compared with the corresponding period one year earlier (from 168 to 155 crashes)
  - decreased by an average of 2.0 per cent per year over the three years to June 2018
  - Fatal crashes involving articulated trucks:
    - decreased by 11.2 per cent compared with the corresponding period one year earlier (from 98 to 87 crashes)
    - decreased by an average of 0.7 per cent per year over the three years to June 2018
  - Fatal crashes involving heavy rigid trucks:
    - increased by 4.1 per cent compared with the corresponding period one year earlier (from 74 to 77 crashes)
    - decreased by an average of 0.5 per cent per year over the three years to June 2018
- During the 12 months to June 2018, 22 people died in 21 fatal crashes involving buses.
- Fatal crashes involving buses:
  - decreased by 30.0 per cent compared with the corresponding period one year earlier (from 30 to 21 crashes)
  - increased by an average of 11.9 per cent per year over the three years to June 2018

<sup>a</sup> Figures sum to more than the total because some crashes involved more than one type of heavy vehicle.

## ANNUAL TRENDS

**Table 1 Fatal crashes**

	<i>Articulated Truck involved</i>	<i>Heavy Rigid Truck involved</i>	<i>Any heavy truck involved</i>	<i>Bus involved</i>	<i>Any heavy vehicle involved</i>
<b>12 Months ended</b>					
<i>June 2008</i>	148	85	227	22	248
<i>June 2009</i>	116	89	199	21	220
<i>June 2010</i>	131	62	190	21	211
<i>June 2011</i>	127	60	177	24	200
<i>June 2012</i>	113	72	180	23	200
<i>June 2013</i>	108	75	180	13	192
<i>June 2014</i>	109	75	181	13	193
<i>June 2015</i>	90	79	168	16	182
<i>June 2016</i>	95	72	162	22	184
<i>June 2017</i>	98	74	168	30	194
<i>June 2018</i>	87	77	155	21	176
<i>Ave. trend change p.a.(%)</i>					
<i>- for last 10 years</i>	-4.5	-0.2	-2.8	0.0	-2.6
<i>- for last 5 years</i>	-3.8	0.0	-2.8	16.1	-1.2
<i>- for last 3 years</i>	-0.7	-0.5	-2.0	11.9	-0.5

**Table 2 Fatalities**

	<i>Articulated Truck involved</i>	<i>Heavy Rigid Truck involved</i>	<i>Any heavy truck involved</i>	<i>Bus involved</i>	<i>Any heavy vehicle involved</i>
<b>12 Months ended</b>					
<i>June 2008</i>	175	93	262	23	284
<i>June 2009</i>	129	93	216	25	241
<i>June 2010</i>	160	75	230	24	254
<i>June 2011</i>	149	64	203	25	227
<i>June 2012</i>	125	85	205	23	225
<i>June 2013</i>	136	85	218	15	232
<i>June 2014</i>	120	86	203	13	215
<i>June 2015</i>	107	89	195	20	213
<i>June 2016</i>	110	84	186	25	211
<i>June 2017</i>	112	78	184	35	213
<i>June 2018</i>	94	85	169	22	191
<i>Ave. trend change p.a.(%)</i>					
<i>- for last 10 years</i>	-4.9	-0.1	-3.2	0.2	-2.9
<i>- for last 5 years</i>	-5.6	-1.0	-4.5	15.7	-2.8
<i>- for last 3 years</i>	-3.6	-2.1	-4.3	6.4	-3.1

# ARTICULATED TRUCK INVOLVEMENT

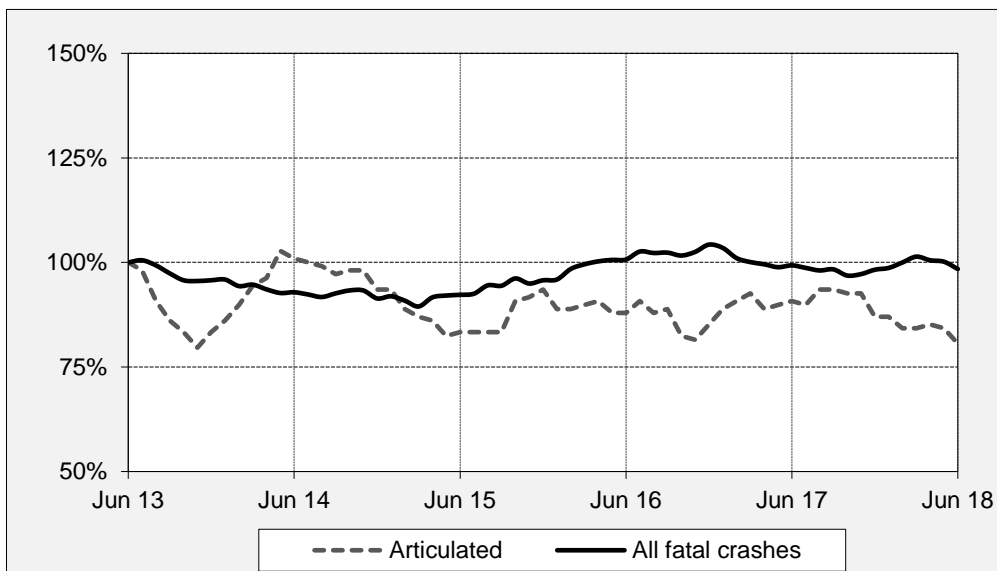
**Table 3 Fatal crashes involving articulated trucks by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2013	30	13	26	8	8	2	3	0	90
2014	28	25	26	10	6	4	0	2	101
2015	31	21	23	12	11	2	0	1	101
2016	22	20	23	10	9	3	4	1	92
2017	39	20	17	7	9	2	0	0	94
<b>Quarters</b>									
<b>2016</b>									
June	7	3	6	4	0	3	0	0	23
September	5	8	6	1	1	0	0	1	22
December	6	6	6	3	4	0	3	0	28
<b>2017</b>									
March	11	7	6	2	1	0	0	0	27
June	11	3	3	2	1	1	0	0	21
September	11	6	5	2	1	0	0	0	25
December	6	4	3	1	6	1	0	0	21
<b>2018</b>									
March	8	3	7	3	2	1	0	0	24
June	6	2	5	1	2	1	0	0	17
<b>12 Months ended</b>									
June 2017	33	24	21	8	7	1	3	1	98
June 2018	31	15	20	7	11	3	0	0	87
% change	-6.1	-37.5	-4.8	-12.5	57.1	200.0	-100.0	-100.0	-11.2
<b>Average annual % change over 3 years<sup>a</sup></b>									
<i>12 mths end Jun 2016</i>									
to 12 mths end Jun 2018	10.2	-7.2	-2.3	-8.5	1.5	-21.9	-	-	-0.7

a Average annual percentage change based on the exponential trend for the last three 12-month periods.

## Index of fatal crashes involving articulated trucks in Australia — five years ended June 2018

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the corresponding number of fatal crashes in the 12 months to the end of March 2013.



## ARTICULATED TRUCK INVOLVEMENT

**Table 4 Deaths from crashes involving articulated trucks by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2013	32	15	35	11	11	2	4	0	110
2014	31	27	32	12	6	5	0	2	115
2015	34	21	28	15	12	3	0	1	114
2016	26	22	25	11	10	5	5	1	105
2017	49	20	19	7	9	2	0	0	106
<b>Quarters</b>									
<b>2016</b>									
June	9	5	7	4	0	5	0	0	30
September	5	8	7	1	1	0	0	1	23
December	8	6	6	3	5	0	4	0	32
<b>2017</b>									
March	13	7	6	2	1	0	0	0	29
June	16	3	5	2	1	1	0	0	28
September	14	6	5	2	1	0	0	0	28
December	6	4	3	1	6	1	0	0	21
<b>2018</b>									
March	10	3	8	3	2	1	0	0	27
June	6	2	5	1	3	1	0	0	18
<b>12 Months ended</b>									
June 2017	42	24	24	8	8	1	4	1	112
June 2018	36	15	21	7	12	3	0	0	94
% change	-14.3	-37.5	-12.5	-12.5	50.0	200.0	-100.0	-100.0	-16.1
<b>Average annual % change over 3 years<sup>a</sup></b>									
<i>12 mths end Jun 2016</i>									
<i>to 12 mths end Jun 2018</i>	11.5	-10.7	-9.3	-18.0	4.7	-30.3	-	-	-3.6

a Average annual percentage change based on the exponential trend for the last three 12-month periods.

**Table 5 Deaths from crashes involving articulated trucks by State/Territory and road user — 12 months ended June 2018**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers <sup>a</sup>	22	11	17	5	7	3	0	0	65
Passengers <sup>a</sup>	10	2	3	0	3	0	0	0	18
Pedestrians	3	0	1	1	0	0	0	0	5
Motorcyclists <sup>b</sup>	0	2	0	0	1	0	0	0	3
Pedal cyclists <sup>b</sup>	1	0	0	1	1	0	0	0	3
All road users <sup>c</sup>	36	15	21	7	12	3	0	0	94

a Includes drivers/passengers of light and heavy vehicles.

b Includes pillion passengers.

c Includes road users not separately specified.

**Table 6 Deaths from crashes involving articulated trucks by State/Territory and crash type — 12 months ended June 2018**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Single vehicle crashes	5	1	5	0	1	1	0	0	13
Multiple vehicle crashes	28	14	15	6	11	2	0	0	76
Pedestrian crashes	3	0	1	1	0	0	0	0	5
All crash types	36	15	21	7	12	3	0	0	94

# HEAVY RIGID TRUCK INVOLVEMENT

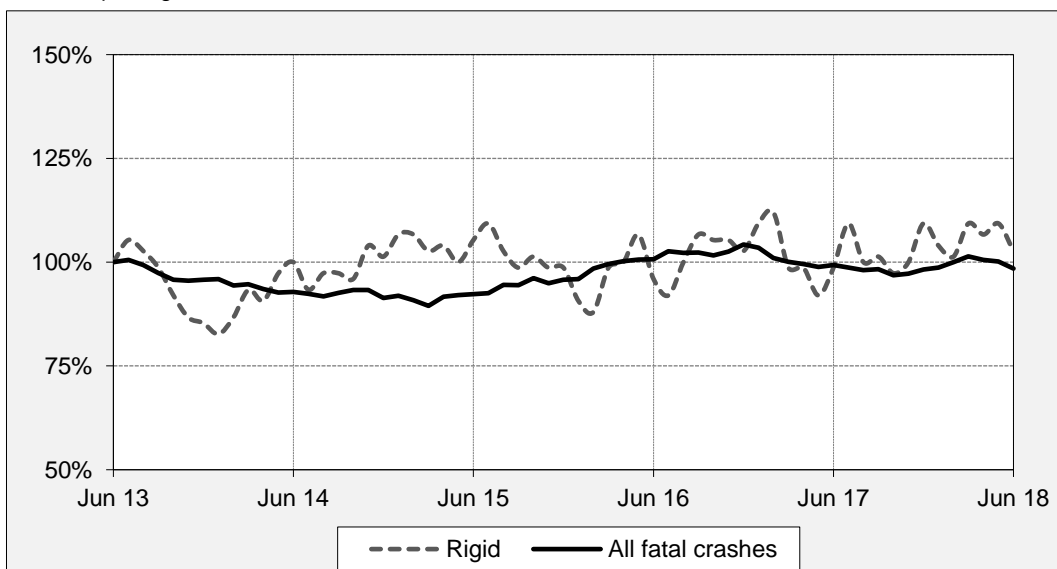
**Table 7 Fatal crashes involving heavy rigid trucks by State/Territory**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<b>Australia</b>
<b>Calendar Years</b>									
2013	22	12	11	4	15	0	0	0	64
2014	21	23	9	10	10	3	0	0	76
2015	22	18	16	2	10	5	1	0	74
2016	30	16	12	5	10	4	0	0	77
2017	29	19	11	5	13	5	0	0	82
<b>Quarters</b>									
<b>2016</b>									
June	8	3	2	2	2	3	0	0	20
September	6	3	3	2	5	0	0	0	19
December	6	5	4	1	1	0	0	0	17
<b>2017</b>									
March	8	4	2	1	2	1	0	0	18
June	7	3	6	0	3	1	0	0	20
September	8	5	2	2	3	1	0	0	21
December	6	7	1	2	5	2	0	0	23
<b>2018</b>									
March	7	2	5	1	1	2	0	0	18
June	5	2	4	2	1	1	0	0	15
<b>12 Months ended</b>									
June 2017	27	15	15	4	11	2	0	0	74
June 2018	26	16	12	7	10	6	0	0	77
% change	-3.7	6.7	-20.0	75.0	-9.1	200.0	-	-	4.1
<b>Average annual % change over 3 years<sup>a</sup></b>									
<i>12 mths end Jun 2016</i>									
to 12 mths end Jun 2018	7.8	-9.7	-1.0	7.2	-4.0	22.7	-	-	-0.5

a Average annual percentage change based on the exponential trend for the last three 12-month periods.

## Index of fatal crashes involving heavy rigid trucks in Australia — five years ended June 2018

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the corresponding number of fatal crashes in the 12 months to the end of March 2013.



## HEAVY RIGID TRUCK INVOLVEMENT

**Table 8 Deaths from crashes involving heavy rigid trucks by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2013	24	13	13	4	15	0	0	0	69
2014	21	29	9	15	11	3	0	0	88
2015	25	20	17	3	11	5	1	0	82
2016	32	18	13	8	11	6	0	0	88
2017	33	20	11	5	14	5	0	0	88
<b>Quarters</b>									
<b>2016</b>									
June	8	3	3	5	2	5	0	0	26
September	7	3	3	2	5	0	0	0	20
December	7	5	4	1	1	0	0	0	18
<b>2017</b>									
March	9	4	2	1	2	1	0	0	19
June	7	3	6	0	4	1	0	0	21
September	10	5	2	2	3	1	0	0	23
December	7	8	1	2	5	2	0	0	25
<b>2018</b>									
March	10	2	6	1	1	2	0	0	22
June	5	2	4	2	1	1	0	0	15
<b>12 Months ended</b>									
June 2017	30	15	15	4	12	2	0	0	78
June 2018	32	17	13	7	10	6	0	0	85
% change	6.7	13.3	-13.3	75.0	-16.7	200.0	-	-	9.0
<b>Average annual % change over 3 years<sup>a</sup></b>									
<i>12 mths end Jun 2016</i>									
<i>to 12 mths end Jun 2018</i>	13.5	-12.5	0.0	-16.8	-6.5	19.6	-	-	-2.1

a Average annual percentage change based on the exponential trend for the last three 12-month periods.

**Table 9 Deaths from crashes involving heavy rigid trucks by State/Territory and road user — 12 months ended June 2018**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers <sup>a</sup>	18	10	6	3	8	5	0	0	50
Passengers <sup>a</sup>	5	3	1	1	1	0	0	0	11
Pedestrians	4	1	3	2	0	0	0	0	10
Motorcyclists <sup>b</sup>	4	1	3	0	0	0	0	0	8
Pedal cyclists <sup>b</sup>	1	2	0	1	1	1	0	0	6
All road users <sup>c</sup>	32	17	13	7	10	6	0	0	85

a Includes drivers/passengers of light and heavy vehicles.

b Includes pillion passengers.

c Includes road users not separately specified.

**Table 10 Deaths from crashes involving heavy rigid trucks by State/Territory and crash type — 12 months ended June 2018**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Single vehicle crashes	2	0	1	2	3	2	0	0	10
Multiple vehicle crashes	26	16	9	3	7	4	0	0	65
Pedestrian crashes	4	1	3	2	0	0	0	0	10
All crash types	32	17	13	7	10	6	0	0	85

## BUS INVOLVEMENT

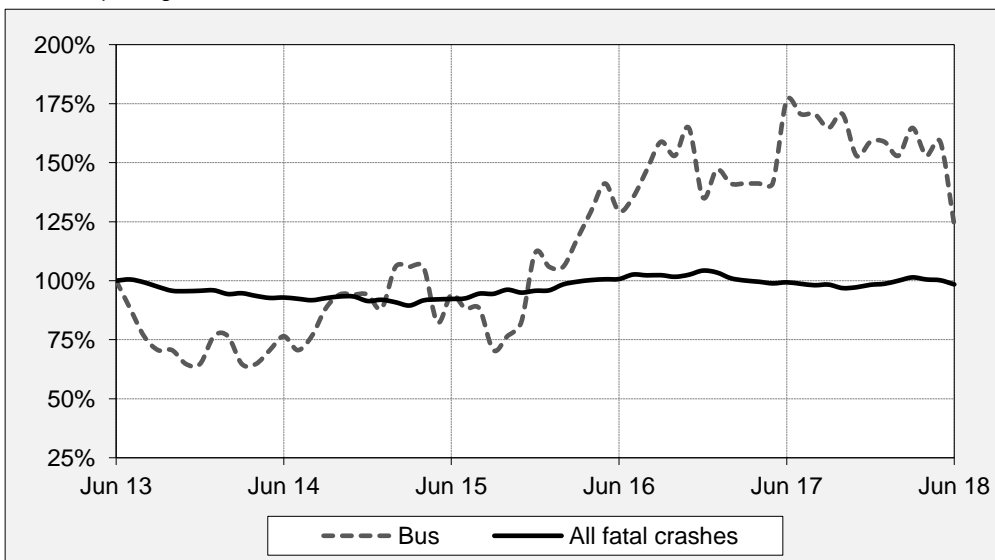
**Table II Fatal crashes involving buses by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2013	2	3	5	0	0	0	1	0	11
2014	6	3	1	1	4	0	0	1	16
2015	5	6	2	1	2	1	1	1	19
2016	10	2	3	3	3	1	1	0	23
2017	7	6	8	0	3	1	2	0	27
<b>Quarters</b>									
<b>2016</b>									
June	3	1	1	0	1	0	0	0	6
September	4	0	0	0	1	1	1	0	7
December	1	1	1	2	0	0	0	0	5
<b>2017</b>									
March	2	0	4	0	0	0	0	0	6
June	4	2	3	0	1	1	1	0	12
September	1	2	1	0	1	0	0	0	5
December	0	2	0	0	1	0	1	0	4
<b>2018</b>									
March	3	1	1	0	2	0	0	0	7
June	2	1	2	0	0	0	0	0	5
<b>12 Months ended</b>									
June 2017	11	3	8	2	2	2	2	0	30
June 2018	6	6	4	0	4	0	1	0	21
% change	-45.5	100.0	-50.0	-100.0	100.0	-100.0	-50.0	-	-30.0
<b>Average annual % change over 3 years<sup>a</sup></b>									
<i>12 mths end Jun 2016</i>									
to 12 mths end Jun 2018	6.2	29.7	62.5	-	4.7	-	-	-	11.9

a Average annual percentage change based on the exponential trend for the last three 12-month periods.

### Index of fatal crashes involving buses in Australia — five years ended June 2018

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the corresponding number of fatal crashes in the 12 months to the end of March 2013.



## BUS INVOLVEMENT

**Table 12 Deaths from crashes involving buses by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2013	2	3	6	0	0	0	1	0	12
2014	6	4	1	1	7	0	0	1	20
2015	5	7	2	1	2	1	3	1	22
2016	10	2	3	3	3	1	2	0	24
2017	7	9	10	0	3	1	2	0	32
<b>Quarters</b>									
<b>2016</b>									
June	3	1	1	0	1	0	0	0	6
September	4	0	0	0	1	1	2	0	8
December	1	1	1	2	0	0	0	0	5
<b>2017</b>									
March	2	0	4	0	0	0	0	0	6
June	4	4	5	0	1	1	1	0	16
September	1	2	1	0	1	0	0	0	5
December	0	3	0	0	1	0	1	0	5
<b>2018</b>									
March	3	1	1	0	2	0	0	0	7
June	2	1	2	0	0	0	0	0	5
<b>12 Months ended</b>									
June 2017	11	5	10	2	2	2	3	0	35
June 2018	6	7	4	0	4	0	1	0	22
% change	-45.5	40.0	-60.0	-100.0	100.0	-100.0	-66.7	-	-37.1
<b>Average annual % change over 3 years<sup>a</sup></b>									
<i>12 mths end Jun 2016</i>									
<i>to 12 mths end Jun 2018</i>	6.2	24.7	66.1	-	-15.0	-	-	-	6.4

a Average annual percentage change based on the exponential trend for the last three 12-month periods.

**Table 13 Deaths from crashes involving buses by State/Territory by road user – 12 months ended June 2018**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers <sup>a</sup>	3	1	2	0	1	0	0	0	7
Passengers <sup>a</sup>	0	2	0	0	0	0	0	0	2
Pedestrians	3	3	2	0	1	0	1	0	10
Motorcyclists <sup>b</sup>	0	1	0	0	0	0	0	0	1
Pedal cyclists <sup>b</sup>	0	0	0	0	2	0	0	0	2
All road users <sup>c</sup>	6	7	4	0	4	0	1	0	22

a Includes drivers/passengers of light and heavy vehicles.

b Includes pillion passengers.

c Includes road users not separately specified.

**Table 14 Deaths from crashes involving buses by State/Territory by crash type - – 12 months ended June 2018**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Single vehicle crashes	0	2	0	0	1	0	0	0	3
Multiple vehicle crashes	3	2	2	0	2	0	0	0	9
Pedestrian crashes	3	3	2	0	1	0	1	0	10
All crash types	6	7	4	0	4	0	1	0	22



## APPENDIX

**Glossary** Note. The following definitions are general explanations only. The precise definitions vary across the organisations that provide the source data. These differences may result in minor inconsistencies between jurisdictions for some variables.

*Articulated truck* A motor vehicle primarily for load carrying, consisting of a prime mover that has no significant load carrying area but with a turntable device which can be linked to one or more trailers.

*Heavy rigid truck* A motor vehicle of GVM greater than 4.5 tonnes constructed with a load carrying area. Includes a rigid truck with a tow bar, draw bar or other non-articulated coupling on the rear of the vehicle.

*Gross Vehicle Mass (GVM)* Tare weight (i.e. unladen weight) of the motor vehicle plus its maximum carrying capacity excluding trailers.

*Bus* A motor vehicle constructed for the carriage of passengers which has at least 10 seats, including the driver's seat.

*Crash* Any apparently unpremeditated event reported to police, or other relevant authority, and resulting in death, injury or property damage attributable to the movement of a road vehicle on a public road.

*Road Death or Fatality* A person who dies within 30 days of a crash as a result of injuries received in that crash.

*Fatal crash* A crash for which there is at least one death.

**Preliminary data** Data for recent months are preliminary and subject to revision.

**Estimation of three year trends** In this bulletin, the figures for the 'Average annual per cent change over 3 years' are calculated by fitting an exponential trend line to the last four data points (years 0 to 3). The Excel function LOGEST performs the fit. The resulting trend line represents a constant annual percent change over the period. (Note: when fitted to a series containing small numbers, this may not be a reliable indicator of a stable trend.)

**Smooth trend lines** Whittaker-Henderson smoothers are used with value of 80 for the smoothing parameter. The application R (package pracma) can be used for such trend lines.

**Data Sources** The data presented here are obtained from the following sources:

- Transport for New South Wales
- VicRoads
- Queensland Department of Transport and Main Roads
- Department of Planning, Transport and Infrastructure South Australia
- Western Australian Police
- Department of State Growth, Tasmania
- Department of Transport, Northern Territory
- Territory and Municipal Services Directorate, Australian Capital Territory

An online version of the database used to produce this bulletin is available from:

< [http://www.bitre.gov.au/statistics/safety/fatal\\_road\\_crash\\_database.aspx](http://www.bitre.gov.au/statistics/safety/fatal_road_crash_database.aspx) >

**Inquiries** For further information about data in this bulletin, contact:

Bureau of Infrastructure, Transport and Regional Economics  
Department of Infrastructure, Regional Development and Cities  
GPO Box 501 Canberra ACT 2601  
Email: [roadsafety@infrastructure.gov.au](mailto:roadsafety@infrastructure.gov.au)  
Internet: < <http://www.bitre.gov.au> >